Claims:

1. A razor comprising a blade unit carrying structure on which a blade unit is mounted or mountable for pivotal movement about a predetermined axis, and a delivery system for conducting a fluid dispensed from a reservoir connected to the blade unit carrying structure to at least one discharge port, wherein the discharge port opening is at or close to the predetermined pivot axis.

2. A razor according to claim 1, wherein the discharge port opening is defined by a part which remains stationary with respect to the blade unit carrying structure during pivotal movement of the blade unit about the predetermined axis.

3. A razor according to claim 2, wherein the stationary part is not mechanically coupled directly to the blade units.

4. A razor according to claims 1,2 or 3, wherein the discharge port is disposed to deliver the fluid at a guard surface of the blade unit.

5. A razor according to any one of claims 1 to 4, wherein the blade unit includes a channel for distributing fluid delivered through the discharge port across the blade unit in the direction of the pivot axis.

6. A razor according to claim 5, wherein the channel extends substantially parallel to the pivot axis.

7. A razor according to claim 6, wherein the channel is open continuously along the length thereof to allow fluid to pass out of the channel.

EP 1 050 373 A2

8. A razor according to any one of claims 1 to 7, wherein the discharge port is defined by a tubular member, and the blade unit includes an elastomeric skin contacting element having a lip surrounding and sealing against the tubular member adjacent the discharge port.

9. A razor according to any one of claims 1 to 8, wherein the blade unit carrying structure is movably connected to a supporting structure and is movable relative to the supporting structure for actuating a valve included in the delivery system to control flow of fluid to the discharge port.

10. A razor according to claim 9, wherein the blade unit carrying structure is hingedly coupled to the supporting structure for the valve to be actuated by movement of the blade unit carrying structure caused by pressing the blade unit against the skin during shaving.

11. A razor comprising a blade unit carrying structure on one end of which a blade unit is mounted or mountable for pivotal movement relative to the carrying structure, an opposite end of the blade unit carrying structure being hingedly connected to a supporting structure, a delivery system for conducting a fluid to the blade unit from a reservoir, the delivery system including a valve for controlling supply of fluid to the blade unit, the blade unit carrying structure being coupled to the valve for the valve to be actuated by displacement of the blade unit carrying structure relative to the supporting structure caused by pressing the blade unit against the skin during shaving, and the blade unit carrying structure being resiliently biased to close the valve when the blade unit is lifted clear of the skin.

12. A razor blade unit carrying structure on one end of which a blade unit is mounted or mountable for pivotal movement relative to the carrying structure, the carrying structure including a delivery duct for conducting a fluid supplied from a reservoir to the blade unit, on opposite end of the carrying structure being hingedly coupled to a supporting structure for a valve which is operable to control supply of fluid to the delivery duct from the reservoir to be actuated by displacement of the blade unit carrying structure relative to the supporting structure at the hinged coupling therebetween caused by pressing the blade unit against the skin during shaving.

13. A razor according to claim 11, or a razor blade unit carrying structure according to claim 14, wherein the blade unit carrying structure and the supporting structure are integrally connected.

14. A razor or razor blade unit carrying structure as defined in claim 13, wherein the blade unit carrying structure and the supporting structure are integrally connected by at least one flexible web.

15. A razor or razor blade unit carrying structure as defined in claim 14, wherein the supporting structure comprises a ring to which the blade unit carrying structure is integrally connected by a pair of laterally opposed webs.

16. A razor according to any one of claims 9 to 15, wherein the reservoir is formed by a container having a rim surrounding the valve, and the supporting structure is firmly attached to the container at the rim thereof.

17. A razor according to claim 16, wherein the supporting structure has a friction or snap-fit engagement with the container rim.

18. A razor according to claim 15, 16 or 17, wherein the blade unit carrying structure has a stop for abutment with the container rim to define an end position from which the blade unit carrying structure is pivotable to actuate the valve.

19. A razor according to any one of claims 16 to 18, wherein the valve includes a valve member protruding beyond the container rim and into an inlet aperture formed by the blade unit carrying structure.

20. A razor according to claim 21 wherein the inlet aperture is defined by an annular sealing member.

21. A razor according to claim 20 or 21, wherein the valve member cooperates with an annular valve seat and is capable of tilting to open the valve.

22. A razor or a razor blade carrying unit according to any one of claims 9 to 21, wherein the blade unit carrying structure comprises a hollow stem structure extending from a flange-like base, the base being engagable by a finger of a hand in which the razor is held for selectively displacing the blade unit carrying structure to actuate the valve.